June 26, 2009 7:26:45 AM

Item ID:

D2199-1

Revision ID:

EL

Item Name:

Strut Details

Start Date:

15/07/2009

Start Qty: 5.00

Required Date: 03/08/2009

Req'd Qty: 5.00

Accept

Setup Start

Stop

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID Operation **Description** Set Up/ **Run Hours** Draw Number Draw Rev.

Plan Accept Code **Qty**

Reject Oty

Reject Number

Insp. Stamp

Draw Nbr

Revision Nbr

D2199

Rev E1

Brake NC

NC BRAKE

Memo

0.00

0.00

SB 09107/06



Brake NC

Punch per Dwg. D2199 and Spec Control Dwg D2638

110

Small Fab

Small Fab

Small Fab

Memo Deburr

Memo

0.00

0.00

m. L 09/07/07



120

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00 => Solozloz (RS)



Work Order ID 48227

June 26, 2009 7:26:45 AM

Item ID:

D2199-1

Revision ID: E1

Item Name:

Required Date: 03/08/2009

Start Date:

15/07/2009

Strut Details

Start Qty: 5.00

Req'd Qty: 5.00



Accept



Setup Start

Stop

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

QC:

Date: Date: **Tooling:**

SPC (Y/N):

Date: Date: Run

Start Stop

Sequence ID/ **Work Center ID**

130

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.2) per QSI005 4.3-Steel

Set Up/ **Run Hours**

0.00

Draw Number

Draw Rev.

Plan Accept Qty Code

Reject Qty

Reject Number

Insp. Stamp

Memo

START TIME:

0.00 UNDOWN HOVEN TEMPERATURE:

1.300 FINISH TIME:

400°F

MIII472 09-07-67 (3)

140

Quality Control

QC3- Inspect Part Finish

0.00

0.00

Memo

150

Packaging

Packaging

Identify as per dwg & Stock Location: 57 258

Memo

(c 8/1/7 (5)

Work Order ID 48227

June 26, 2009 7:26:45 AM

Item ID:

D2199-1

Revision ID:

E1

Item Name:

Strut Details

Start Date:

15/07/2009

Start Qty: 5.00 Req'd Qty: 5.00

Required Date: 03/08/2009

Accept



Setup Start

Stop



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

QC:

Date:

Date:

Tooling: -

SPC (Y/N):

Date:

Date:

Start Run

Stop





Sequence ID/ Work Center ID

QC

Quality Control

160

Operation Description

QC21- Final Inspection - Work Order Release

Memo

Set Up/ **Run Hours**

0.00

0.00

Draw Number Draw Rev.

Plan Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

09 607/077y

Picklist Print

June 26, 2009 7:26:45 AM

Work Order ID: 48227

Parent Item:

D2199-1RevE1

Parent Item Name: Strut Details

Comments:

Component Item ID/ /Item Name

Replacement Mfg/ Item ID Purch

Purchased

Bin

No

Primary

Item Location

M304TR0.750W.049

304 RD Tube .750 x .049W



Last

Location

Start Date: 15/07/2009

Required Date: 03/08/2009

Start Qty: 5.00

Required Qty: 5.00

Remaining Qty Date Qty To Pick Issued Issued

Status

0.0000 8.1579

Qty on

Unit of

Measure Hand

Route

Seq ID

100

MIII 619

Se 09/07/07/07

Qty:

5 Um:

Each

: STRUT

: D21991

: N/A

; E1

D2199 REV. E1

: 12/06/2009



User:

Thursday, 28/05/2009 9:11:21 AM

Julie Dawson

Process Sheet

Drawing Name

Part Number

Material

Due Date

Drawing Number

Project Number

Drawing Revision

Customer : CU-DAR001 Dart Helicopters Services

Job Number : 48227 **Estimate Number** : 10200

P.O. Number

This Issue : 28/05/2009 Prsht Rev.

: NC

: // First Issue

: 43596 **Previous Run**

Written By

Checked & Approved By Comment

: Est B 02.06.10

S.O. No. :

Type

Added finish

: SMALL /MED FAB

NG/RF

Additional Product

Job Number:

Seq. #:

Machine Or Operation:

Description:

304 RD Tube .750 x .049W

M304TR0750W049

Comment: Qty.: 1.6275 f(s)/Unit Total: 8.1375 f(s)

> Material: 304/316 SS tubing 0.750" Dia. x 0.049" wall (M304TR0750W049)

Batch No:

BRAKE NC

NC BRAKE

Comment: BRAKE NC

Punch per Dwg. D2199 and Spec Control Dwg D2638

SMALL & MEDIUM FAB RESOURCE 1

Comment: SMALL & MEDIUM FAB RESOURCE 1

Deburr

QC5

INSPECT WORK TO CURRENT STEP

Comment: INSPECT WORK TO CURRENT STEP

5.0

POWDER COATING



M111472

Comment: POWDER COATING

Powder Coat White Gloss (Ref: 4.3.5.2) as per QSI 005 4.3

START TIME:

1,000 W

OVEN TEMPERATURE: 4000 C

1:302

FINISH TIME:

09-07-07



Dart Aerospace Ltd

W/O:			WC	RK ORDER CHANG	ES			
DATE	STEP	PRO	PROCEDURE CHANGE			Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	}							
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA :	Date: _	
		esolution:						
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCR)		- 111
DATE	STEP	Description of NC	Corrective Action Section B			Verification	1 Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector

NOTE: Date & initial all entries

Thursday, 28/05/2009 9:11:21 AM Date: User: Julie Dawson **Process Sheet** Drawing Name: STRUT Customer: CU-DAR001 Dart Helicopters Services Job Number: 48227 Part Number: D21991 Job Number: Seq. #: **Machine Or Operation:** Description: 6.0 QC3 INSPECT POWDER COAT/CHEMICAL CONVERSION Comment: INSPECT PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: QC21 FINAL INSPECTION/W/O RELEASE Comment: FINAL INSPECTION/W/O RELEASE Job Completion

Dart Aerospace Ltd

W/O:			WC	RK ORDER CHANG	GES				· · ·
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								1100111191	
									
Part No		PAR #:	Fault Cate	jory:	NCR: Yes	No DQ	A:	Date: _	
	Res	solution:	Disposition	n:	QA: N/C CI	osed:		Date: _	
NCR:		,	WORK ORDE	ER NON-CONFORM	ANCE (NCF	?)			
DATE	STEP	Description of NC	Corrective Action Section E			Verificati		n Approval	Approval
DATE	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date		Section C	Chief Eng	QC Inspector	
·			1,1,1				-		

NOTE: Date & initial all entries



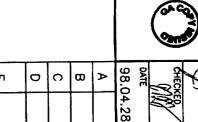


DRAWING N

SHEET 1 OF 1

SCALE SIN

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1993

NEW ISSUE

111 -17 -21

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STRUT DETAILS

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AND -13

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ADDED

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98.04.28

ADDED -23 AND ADDED TEMPLATE REDRAWN IN CAD

80 1

-25 PER & SPEC (

CTR TSR

A565M DWG

02.03.22

ADD FINISH

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i	D DIA PUNCH BOTH ENDS PER SPEC CONTROL DRAWING D2638		m
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	Α	В	С	D	
D2199-1	18.30	17.50	0.257	0.257]
02199-3	5.80	5.00	0.257	0.257	
D2199-5	22.64	21.84	0.257	0.316	
D2199-7	14.74	13.94	0.257	0.257	
D2199-9	16.52	15.72	0.257	0.257] _
D2199-11	23.60	22.80	0.257	0.316	(1)
D2199-13	15.96	15.16	0.257	0.257	(B)
D2199-15	17.57	16.77	0.257	0.257] (B)
02199-17	28.05	27.25	0.257	0.316]
D2199-19	18.90	18.10	0.257	0.257] (0)
D2199-21	10.80	10.00	0.257	0.257]
D2199-23	26.18	25.38	0.257	0.316] (1)
D2199-25	19.93	19.13	0.257	0.257	
02199-27	27.34	26.54	0.257	0.316	13 4
82199-29	2-1-11	20.31	0.257	0.257	1) n

NOTES:

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- 1. MAKE PER TEMPLATE DT2199-XX WHERE XX IS THE RESPECTIVE DASH NUMBER
 2. MATERIAL: AISI 304/316 STAINLESS STEEL TUBE \$0.750 x 0.049 WALL
 3. FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI COS 4.3/EX

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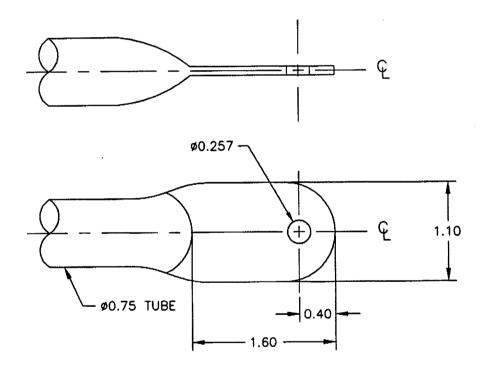




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DESIG	KE	ORAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECK	ED /	APPINOVED	DRAWING NO.	REV. A
0	100	1	D2638 SHEET	1 OF 1
DATE		7	TITLE	SCALE
98.0	4.28		PUNCH DT8117 SPEC CONTROL	1:1
Δ		98.04.28	NEW ISSUE	



SPECIFICATION CONTROL DRAWING FOR PUNCH DT8117



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WORK ORDER